FIG.1

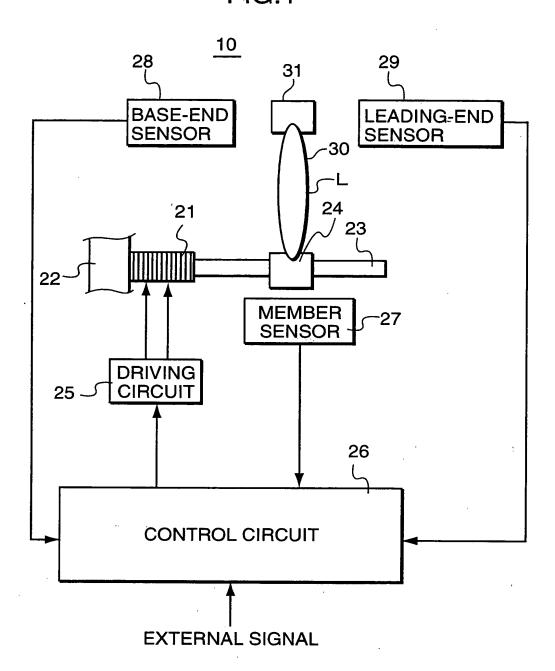


FIG.2

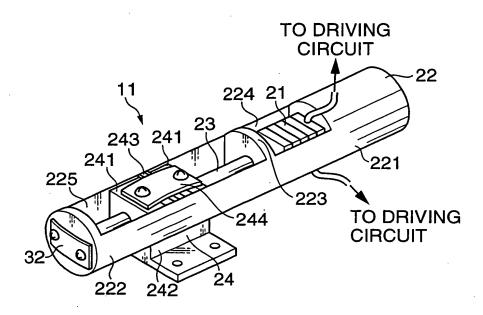
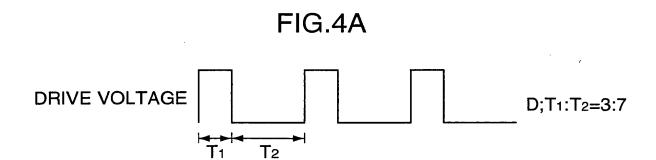
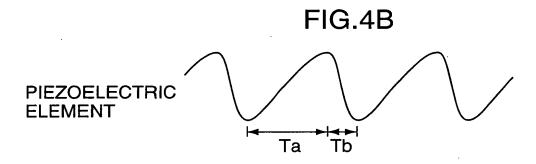
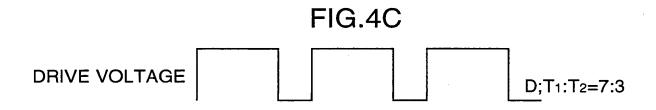


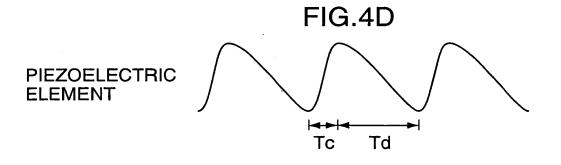
FIG.3 257 258 V1 **≺ →**V2 Tr3 Tr1 21 253 251. В C 255 256 Vd1 Vd2 252 -254 Tr2 Tr4 а 1///

Inventor: Yoshihiro HARA Docket No. 15162/05580 Sheet 3 of 13

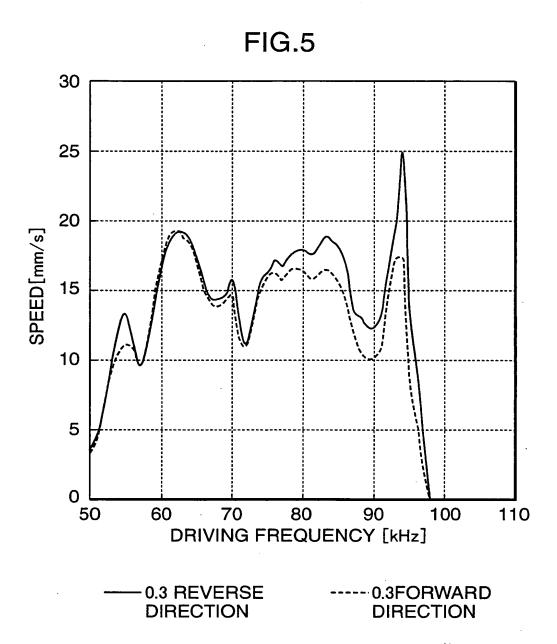








Inventor: Yoshihiro HARA Docket No. 15162/05580 Sheet 4 of 13



Inventor: Yoshihiro HARA Docket No. 15162/05580 Sheet 5 of 13

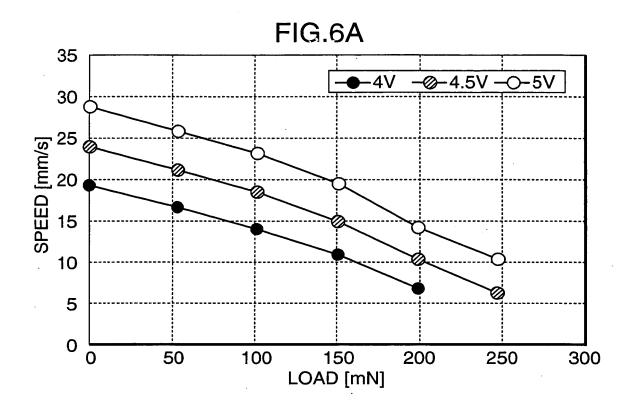
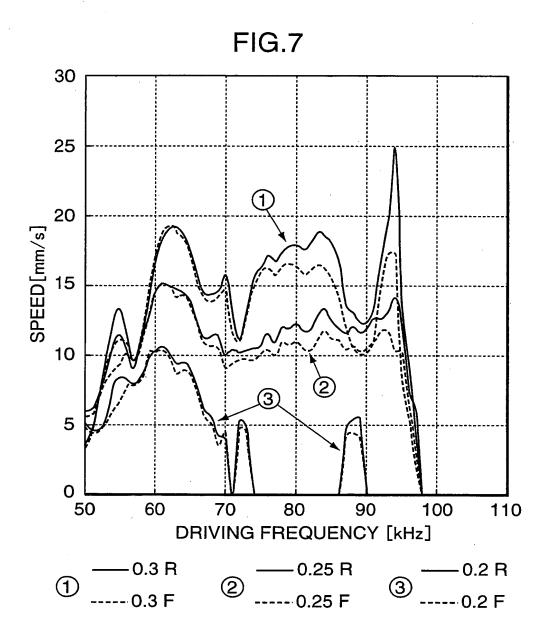


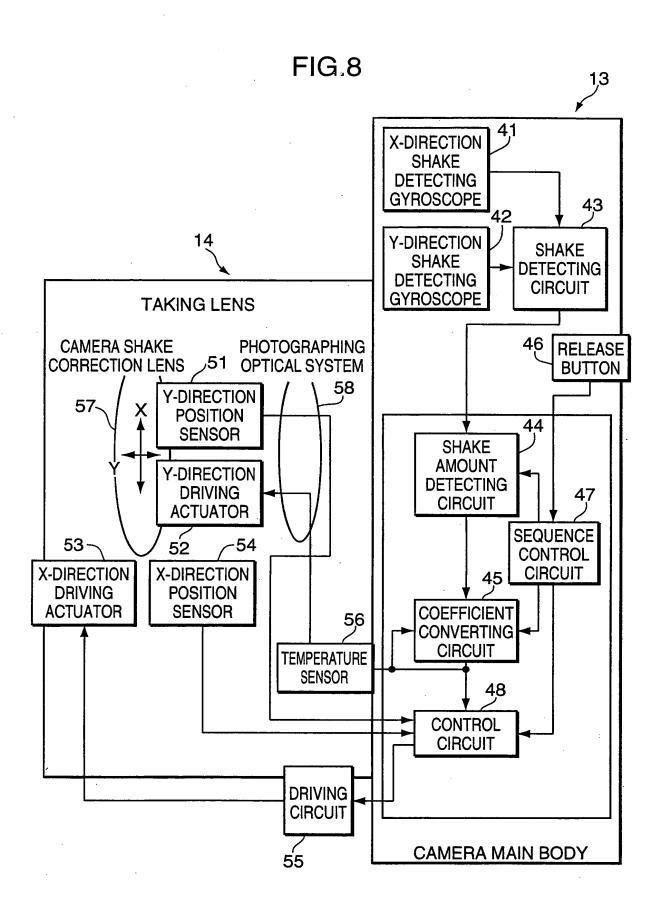
FIG.6B

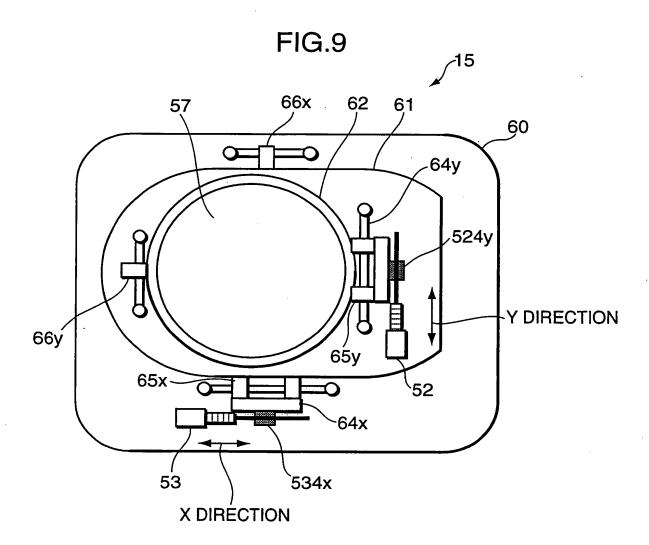
		4V	4.5V	5V
LOAD [gf]	LOAD [mN]	REVERSE DIRECTION	REVERSE DIRECTION	REVERSE DIRECTION
0	0	19.43	24.05	28.91
5.32	52.136	16.63	21.3	25.95
10.32	101.136	14.02	18.54	23.16
15.32	150.136	10.82	14.81	19.66
20.32	199.136	6.86	10.42	14.27
25.32	248.136		6.23	10.37

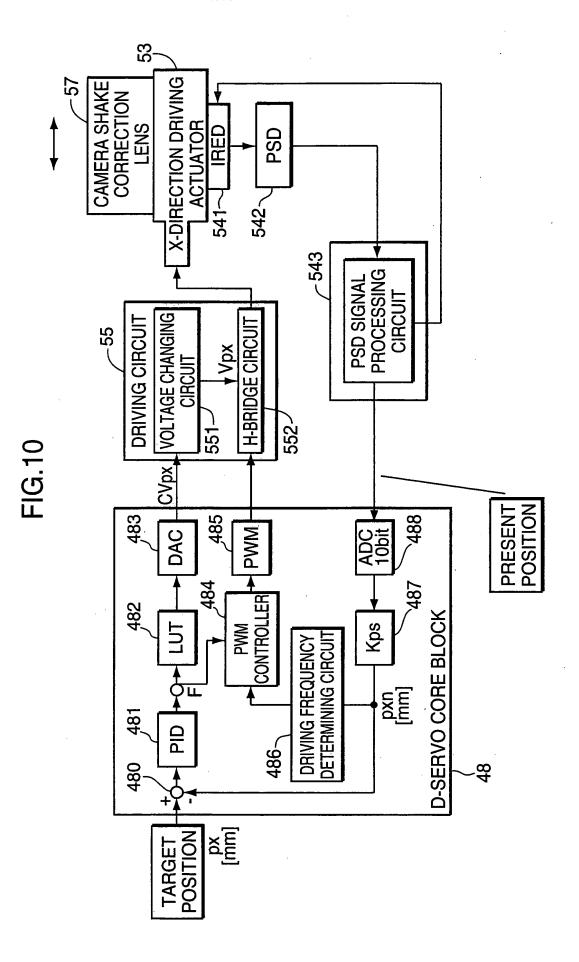
Inventor: Yoshihiro HARA Docket No. 15162/05580 Sheet 6 of 13



Inventor: Yoshihiro HARA Docket No. 15162/05580 Sheet 7 of 13

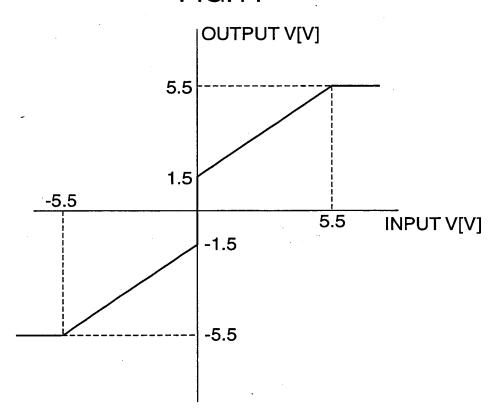






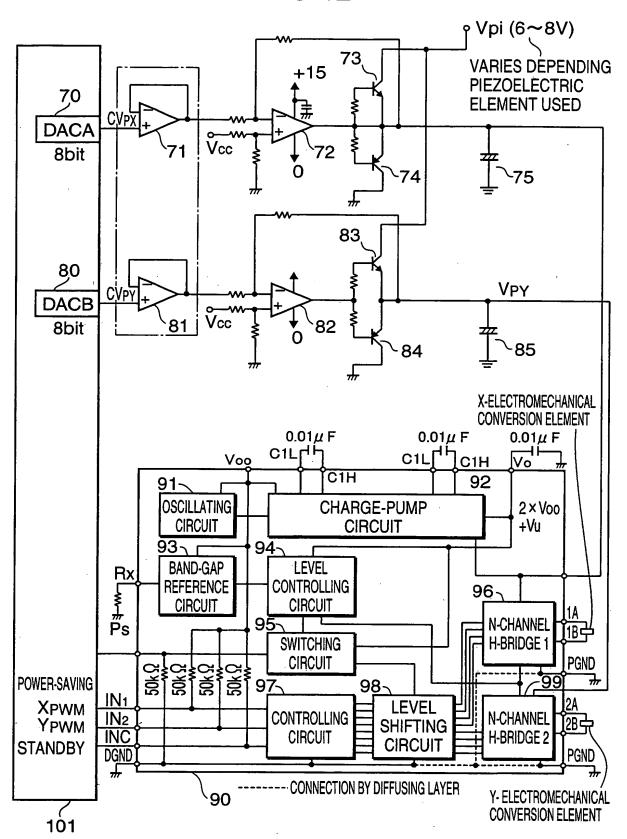
Inventor: Yoshihiro HARA Docket No. 15162/05580 Sheet 10 of 13

FIG.11



**VOLTAGE LOOK-UP TABLE (482)** 

**FIG.12** 



Inventor: Yoshihiro HARA Docket No. 15162/05580 Sheet 12 of 13

FIG.13A

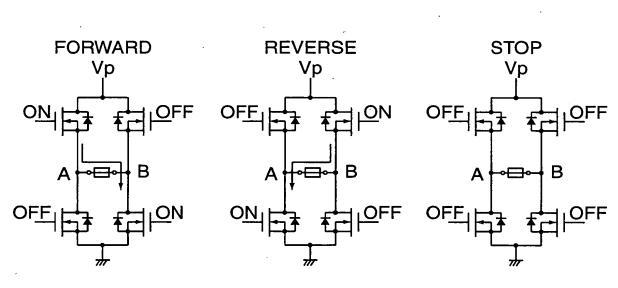
INC	IN1	IN2	H1	H2
Н	Н	H	F	F
Н	L	Н	R	F
Н	L	L	R	R
Н	Н	L	F	R
L	×	×	STOP	

F: FORWARD R: REVERSE

FIG.13B

FIG.13C

FIG.13D



Inventor: Yoshihiro HARA Docket No. 15162/05580 Sheet 13 of 13

